

AMENDMENT TRANSMITTAL LETTER (Small Entity)

Applicant(s): VELTMAN, et al.

Docket No.

5475.00

Serial No.
09/517,426Filing Date
March 2, 2000Examiner
Edward MillerGroup Art Unit
3641

Invention: PROCESS FOR THE PRODUCTION OF CRYSTALLINE ENERGETIC MATERIALS

TO THE ASSISTANT COMMISSIONER FOR PATENTS:

Transmitted herewith is an amendment in the above-identified application.

- Small Entity status of this application has been established under 37 CFR 1.27 by a verified statement previously submitted.
- A verified statement to establish Small Entity status under 37 FR 1.27 is enclosed.

The fee has been calculated and is transmitted as shown below.

CLAIMS AS AMENDED

	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST # PREV. PAID FOR	NUMBER EXTRA CLAIMS PRESENT	RATE	ADDITIONAL FEE
TOTAL CLAIMS	17 -	22 =	0	x \$9.00	\$0.00
INDEP. CLAIMS	4 -	4 =	0	x \$42.00	\$0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT					\$0.00

- No additional fee is required for amendment.
- Please charge Deposit Account No. 04-1425 in the amount of
A duplicate copy of this sheet is enclosed.
- A check in the amount of to cover the filing fee is enclosed.
- The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No.
A duplicate copy of this sheet is enclosed.
- Any additional filing fees required under 37 C.F.R. 1.16.
- Any patent application processing fees under 37 CFR 1.17.

Dated: 19/27/02

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I certify that this document and fee is being deposited on with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

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Docket No.: 5475.00



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: VELTMAN et al.

Serial No.: 09/517,426

Examiner: Miller, Edward

Filed: March 2, 2000

Art Unit: 3641

For: **PROCESS FOR THE PRODUCTION OF CRYSTALLINE ENERGETIC MATERIALS**

Commissioner for Patents
Washington, D.C. 20231

AMENDMENT AND RESPONSE

< This *Amendment and Response* is filed in reply to the Office Action dated August 13, 2002, in the above-identified application. Applicants believe no fees are due. However, if any fees are due, please charge them to Deposit Account 04-1425, referencing docket number 5475.00 and client/matter number 436357-1. Please amend the above-identified application as follows.

In the claims:

Please add new claims 27-32, as follows:

27. (New) A process for producing a crystalline energetic material, comprising:
preparing a crystallising mixture comprising a solvent and a raw energetic material selected from the group consisting of HNF, CL-20, ADN, AP, KDX, HMX and PETN;
subjecting the crystallising mixture to ultrasonic vibration having a frequency of between 10 and 100 kHz and an amplitude of between 0.4 and 30 µm during crystallization; and
harvesting a crystalline energetic material after the crystallization,
wherein the ultrasonic vibration results in a zone of ultrasonic vibration in the crystallising mixture, wherein the crystallising mixture is stirred during crystallization and is passing through the zone of ultrasonic vibration continuously, and wherein the crystalline energetic material has increased thermal stability and decreased sensitivity with respect to the raw energetic material.

28. (New) The process of claim 27, where the crystallization is carried out at a temperature between 0°C and 100°C.

29. (New) The process of claim 28, where the crystallization is carried out at a temperature between 15°C and 75°C.

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